

**ALCOA TECHNICAL CENTER**  
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**APR 06 2006**

**Transmittal Cover Sheet**

**From:**  
ATC, Intellectual Property Dept.

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<b>To:</b>	<b>Fax No:</b>	<b>Company:</b>	<b>Phone No.:</b>
U.S. PTO	571-273-8300	U.S. PTO	

**File No.:** 06-0262

**Re:** U.S. Serial No.: 10/612,866  
Title: Control of Oxide Growth on Molten Aluminum During Casting Using a High  
Moisture Atmosphere

Examiner: Len Tran  
Art Unit: 1725

**Date:** April 6, 2006

**No. Pages:** Including Cover Sheet 12

**Notes:** Please find enclosed the following:

A Response and Amendment having 10 pages

A Fee Transmittal having 1 page

PTO/SB/17 (12-04v2)

Approved for use through 07/31/2006, OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).**FEE TRANSMITTAL**  
**For FY 2005**☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 200.00

**Complete if Known**

Application Number	10/612,866
Filing Date	July 2, 2003
First Named Inventor	Paula L. Kolek, et al.
Examiner Name	Len Tran
Art Unit	1725
Attorney Docket No.	02-2453

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APR 06 2006**METHOD OF PAYMENT (check all that apply)**

- ☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_
- ☒ Deposit Account Deposit Account Number: 50-1561 Deposit Account Name: Greenberg Traurig
- For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)
- ☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
- ☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☐ Credit any overpayments

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**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES****Fee Description**

	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
- 20 or HP =	x	=	

HP = highest number of total claims paid for, if greater than 20.

<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
- 3 or HP =	x	=	

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
- 100 =	/ 50 =	(round up to a whole number) x	=	

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): \_\_\_\_\_

Fees Paid (\$)

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent) 51,803	Telephone 724-337-4726
Name (Print/Type)	Harry A. Hild, Jr.		Date April 6, 2006

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Serial Number: 10/612,866

Filing Date: 7/2/03

Docket No.: 02-2453

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Paula L. Kolek, et al.  
Group Art Unit: 1725  
Confirmation No.: 4386  
For: Control of Oxide Growth on Molten  
Aluminum During Casting Using a  
High Moisture Atmosphere

) Examiner: Len Tran  
) Serial No.: 10/612,866  
) Atty. Docket No.: 02-2453  
) Filed: July 2, 2003

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RESPONSE AND AMENDMENT

April 6, 2006

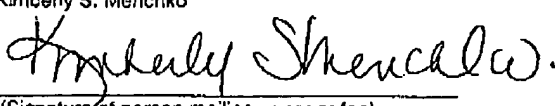
Mail Stop - AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated January 6, 2006, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims that begin on page 2 of this paper.

Remarks begin on page 7 of this paper.

CERTIFICATE OF MAILING	
I hereby certify that this paper (along with any document referred to as being attached or enclosed) is being:	
<b>FIRST CLASS MAIL</b>  <input type="checkbox"/> deposited with the United States Postal Service on _____, with sufficient postage as First Class Mail, in an envelope addressed to Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.  _____ (Signature of person mailing paper or fee)	<b>FACSIMILE</b>  <input checked="" type="checkbox"/> transmitted by facsimile on April 6, 2006 to the U.S. Patent and Trademark Office.  Kimberly S. Merichko  (Signature of person mailing paper or fee)